

WHAT IS CLAIMED IS:

1. A low-profile stepping motor comprising
a first stator unit including: a first upper stator yoke having a plurality of pole teeth which are formed
5 along its semicircular inner circumference, the first upper stator yoke having a hollow-cylindrical protrusion with a top lid; a first lower stator yoke having a plurality of pole teeth which are formed along its semicircular inner circumference and which mesh with the pole teeth of the
10 first upper stator yoke, the first lower stator yoke having a hollow-cylindrical protrusion with a top lid, which opposes the protrusion of the first upper stator yoke thus configuring a pair of opposing protrusions; and a first coil unit fixedly sandwiched between the first upper and
15 lower stator yokes,
a second stator unit including: a second upper stator yoke formed as one piece integrally with the first upper stator yoke, and having a plurality of pole teeth which are formed along its semicircular inner circumference, the
20 second upper stator yoke having a hollow-cylindrical protrusion with a top lid; a second lower stator yoke formed as one piece integrally with the first lower stator yoke, and having a plurality of pole teeth which are formed along its semicircular inner circumference and which mesh
25 with the pole teeth of the second upper stator yoke, the second lower stator yoke having a hollow-cylindrical protrusion with a top lid, which opposes the protrusion of

the second upper stator yoke thus configuring a pair of opposing protrusions; and a second coil unit fixedly sandwiched between the second upper and lower stator yokes and arranged horizontally flush with the first coil unit,
5 and

a rotor assembly rotatably disposed in a circular open space defined by the pole teeth of the first and second stator units.

2. A low-profile stepping motor according to Claim 1,
10 wherein the protrusions are formed by a process of drawing.

3. A low-profile stepping motor according to Claim 1 or 2, wherein the pair of opposing protrusions have their respective top lids butting each other.

4. A low-profile stepping motor according to Claim 3,
15 wherein the top lids each have a flat abutting surface.

5. A low-profile stepping motor according to Claim 3, wherein the top lids each have a lug hole formed at its center.

6. A low-profile stepping motor according to Claim 1,
20 wherein the coil unit is fixedly attached to the pair of opposing protrusions such that the protrusions are fitted into a through-hole formed at a center of the coil unit respectively from upper and lower sides thereof.

7. A low-profile stepping motor according to Claim 1 or 2,
25 wherein one protrusion of the pair of opposing protrusions has a raised circular portion at its top lid, and the other protrusion thereof has at its top lid a recessed circular

portion adapted to engage with the raised circular portion at the top lid of the one protrusion.

8. A low-profile stepping motor according to Claim 1 or 2, wherein one protrusion of the pair of opposing protrusions
5 has a raised circular rim at its top lid, and the other protrusion thereof has at its top lid a circular hole adapted to engage with the raised circular rim at the top lid of the one protrusion.